

MINING EXHIBIT SURELY A WINNER

New Feature at the State Fair
Is One of Centers of
Interest.

REPRESENTS BIG INDUSTRY.

Harry S. Joseph Covers Himself With
Glory in the Under-taking—Practically All Camps Represented.

Out of the rugged breasts of Utah's mountains, and from the rocky depths of her great quarries, have been gathered specimens of the heaviest mineral bearing ores and finest blocks of building and paving stone, and these are combined in the largest exhibit of its kind in the history of the state, which is being shown in the mining building at the Inland Empire exposition this week.

Harry S. Joseph, supervisor of the exhibit, has worked early and late to make the affair a success, and the consensus of opinion among mining men who have visited the building is that he has realized more than they dared hope in their dreams of what the exhibit should be. Mr. Joseph has been ably assisted by Jesse Cannon, W. T. Reed and Charles A. Peet. Mr. Reed spent much time and effort in searching the Tintic district for its finest specimens, and Mr. Peet gathered a magnificent display from the Bingham district.

The mining building represents the whole mining industry of Utah in every imaginable department. The exhibits in precious ores are enough to make the heart of a lover of Utah swell with pride, and the figures of ore values will spread the fame of the state's wonderful mines far and wide.

An ore sample from the Sioux Consolidated carries 4,000 ounces of silver to the ton. This is hard to believe, but the reports of half a dozen different assayers confirm the statement beyond peradventure. Of doubt, as one old miner said when he looked at this sample, "It takes you back to the good old days when the famous Mollie Gibson of Aspen sent out carloads of almost pure silver ore."

Colorado will have to "go some" to beat this 4,000-ounce silver ore, to be sure!

Another specimen that makes the mining men of other states sit up and take serious notice is a large hunk of ore from the Grand Central, which shows five different kinds of copper and runs 50 per cent pure copper.

To a mining man, one of the most sensational exhibits is a large specimen of beautiful, red zinc carbonate ore from the Seranton mine in the North Tintic district. It is a peculiar deposit of zinc carbonate, and the carbonate appears absolutely independent of all other metals. Good authorities who have seen this specimen declare that in all probability there is no other deposit of zinc carbonate ore like this in the world.

MINERAL RUBBER.

A mining exhibit is the last place in the world where one would look for human interest, but behind one of the simplest exhibits in the building lies a story of a Utah inventor who labored incessantly and gave his life for a dream which, in its realization, will certainly revolutionize one of the greatest of the world's industries. On one of the pillars in the mining building an automobile tire hangs on a support. The sign simply states that it is an automobile tire made of Utah mineral rubber. In Salt Lake City, by the Hydrocarbon Manufacturing company, a local concern. The crowds look curiously at the auto tire, and feel it with their hands. Most of the people smile dubiously at the idea of "mineral rubber." But the real story behind that single auto tire of mineral rubber is fraught with enough romance and pathos to make a good novel from real life. Briefly, a Salt Lake City man, by the name of La Belle, spent his life in searching for minerals which, when combined in a certain manner, would take the place of rubber. After experimenting for years, he finally struck the charm in the hydro-carbonate, La Belle, at the climax of his success, refused a million dollars for a half interest in the formula of the secret process. Then La Belle died. That is the skeleton of the story. But La Belle's work was not in vain, and his great invention bide fair to put the rubber trust out of business, because Utah has enough immense beds of the hydro-carbonate to make mineral "rubber" until doomsday.

This mineral rubber auto tire looks like rubber, feels like rubber and smells like rubber. It is rubber! And it is so much stronger than the various vegetable rubbers that there is no comparison between the two when it comes to actual tensile and endurance tests.

UNIVERSITY EXHIBIT.

One of the most interesting and extensive exhibits is that of the University of Utah, including a perfect assay laboratory in charge of Prof. R. H. Bradford, of the department of mines at the university, and a magnificent collection of classified ores and minerals, in charge of Prof. Pack of the department of geology.

In the assay exhibit, students of the university carry on assays for all mining men who bring ore. The outfit includes a small ore crusher, a two-horse power pulverizer, and various articles and chemicals used in a good assay laboratory. One of its most interesting features is a pair of fine delicate scales manufactured by Henssler, of the Salt Lake Mine Smelter and Supply company. The sampling mill is another good feature. The assays run completely from the start to the finish.

The University of Utah exhibit of ores and minerals includes specimens of the finest mines in the state in gold, silver, copper, lead, zinc, mercury and other metals. Paul Padgett, son of L. B. Doble, two of the students, run the assay laboratory and explain the details of the work to the interested visitors.

CONCENTRATOR AT WORK.

An exhibit which attracts the crowd is the Dykes Universal concentrator, which is constantly at work. Hugh J. Dykes, the inventor, who is a Salt Lake City man, explains the process and action of the concentrator to the spectators. It is a machine that works with three simultaneous motions, having a head-yer-cum-stroke motion, a side-rocking motion, and a full-shaking motion at the same time. The table is circular in shape, holding the gangue in constant agitation, until the mineral is released from the sand, when it passes off at the head of the table, while the sand is washed off over the tail. Mr. Dykes, the patentee of this machine, has had 25 years of experience as a mill-man and a mill builder, and has given his entire attention to the concentrating of ore of every grade, handling almost every make of concentrator. It is claimed that his universal concentrator can be operated with less power, and will give cleaner

concentrates, than any other concentrator made, as it saves the cost of copper, and, though a table machine, it equals any vanner machine made. The universal concentrator has been thoroughly tested and demonstrated, and has been put behind other machines and has saved the sulphides that they lost. It is a Salt Lake City product, and the factory is in this city.

The Fairbanks-Morse company exhibits a 15-horse power gasoline mine hoist.

The Salt Lake Hardware company shows an extensive display of gas engines, air and gas compressors, rock drills, air tools, stone drills, pressed steel pulleys, engines and boilers, electric hoists, water turbines, pumps, ore cars, cranes, ropes, skips, rails, ore buckets, centrifugal pumps, concrete mixers, lathes, and all kinds of mine supplies.

The Utah Fuel company has a big exhibit mounted on a high platform, containing piles of specimens of Clear Creek, Winter Quarters, Castle Gate, and Sunnyside coals, all produced in Carbon county.

BINGHAM DISTRICT.

The Bingham district is represented by a splendid exhibit of lead-ore and copper-lead ore from all of the mines in that district of importance, including the Bingham-New England, Bingham Butte, Ohio Copper, Utah Metal, Boston Consolidated, Highland Boy, Starless group, Utah-Apex, United States, Commercial, Bingham Central and Bingham, Colorado, Black Jack, Eureka Hill, Sioux Consolidated, Iron Blossom, Uncle Sam, Mammoth, Lower Mammoth, Grand Central, Victoria, Centennial Eureka, Bullion Beck, Gemini, and other important mines.

The Park district exhibits a magnificent display of silver, lead and gold ore from the Silver King, Coalition, Silver King Consolidated, Daly West, Ontario and Little Bell mines.

The Alta district is well represented by fine ore specimens from the Columbian Consolidated, Alta, Gladstone, South Columbia and other important mines.

The Garfield smelter has a good exhibit of copper bullions. The American Smelting & Refining company shows lead bullion bars from its big Murray plant.

Along the walls of the mining building are big show cases filled with fine specimens of copper and lead ores in all grades from almost every mine in Utah.

The Ophir district has a splendid exhibit of lead ore from the Cliff and other important mines.

GOLD IN COTTONWOOD.

One of the most sensational exhibits in the building is a set of samples from the Big Mitt mine in the Big Cottonwood district. These specimens run very high in gold. One sample is shown by assay to contain \$1.66 worth of gold and 158.3 ounces of silver to the ton. Another specimen runs 383.3 ounces in gold and 193 ounces in silver.

The Centennial Eureka mine shows a huge ore specimen, weighing 1,500 pounds, carrying \$36 in gold, 42 ounces

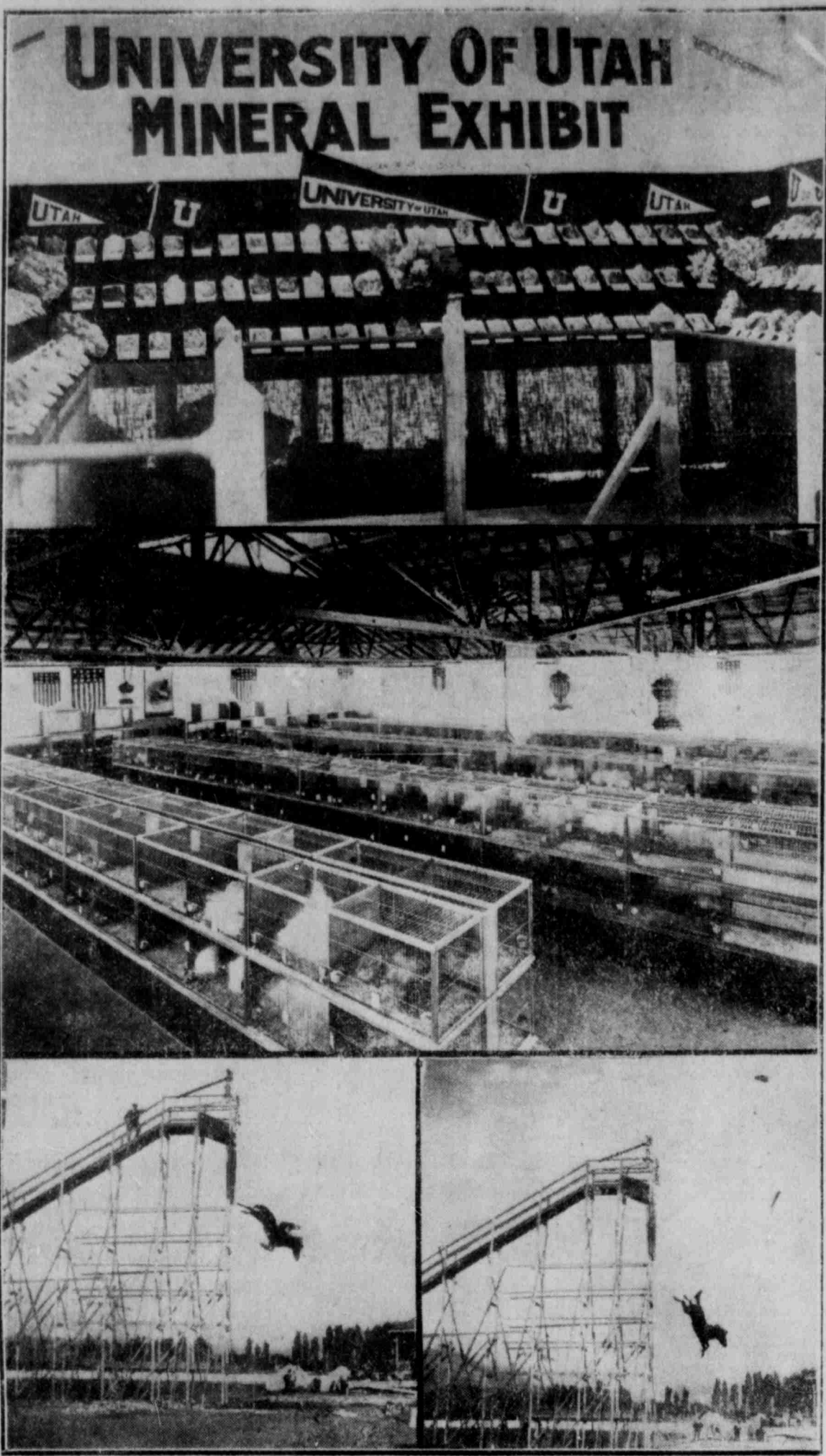


Photo by Utah Photo Materials Co.

MINERAL EXHIBIT, POULTRY SHOW AND REMARKABLE SNAPSHOTS OF DR. CARVER'S DIVING HORSES AT THE STATE FAIR.

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The Centennial Eureka mine shows a huge ore specimen, weighing 1,500 pounds, carrying \$36 in gold, 42 ounces

of silver, 2 per cent lead, and 15 per cent copper.

One of the prettiest displays is a white marble exhibit, taken from the Cache valley quarry, owned by John Rozza.

A big show case contains all of the various classes of gold ores from the Consolidated Mercur and Boston Sunnyside mines in the Mercur district.

The Bingham district has a separate

exhibit showing fire clays and lead carbonate ores from the Tom Moore mines. This exhibit was put up cleverly by A. M. Surbaugh.

On the walls of the mining building hang several large maps showing the mines of the Tintic and Park City districts. There is also a record giving the high and low tables of Utah mining stocks. A bulletin of mining stock quotations is put up every day.

AWARDS AT STATE FAIR

DEPARTMENT I—MANUFACTURES.

Best and most artistic display of Utah goods in building—

Superior Baking company, first prize.

Art Metal & Chandler company, second prize.

Eardley, Ball and Cannon association, third prize.

Mount Pickle company, fourth prize.

Union Manufacturing & Packing company, fifth prize.

Premium 6, best five bunches cotton yarn, Salt Lake Knitting Works, silver medal.

Premium 8, best and largest display of cotton goods, Salt Lake Knitting Works, gold medal.

Premium 9, best display of woolen goods, Salt Lake Knitting Works, gold medal.

Premium 10, best quality of machine-knit hosiery from yarns made in Utah, Salt Lake Knitting Works, gold medal.

Premium 11, best display of machine-knit hosiery from Utah yarns, Salt Lake Knitting Works, gold medal.

Premium 12, best quality of machine-knit goods from foreign or home goods, Salt Lake Knitting Works, gold medal.

Premium 13, best display of machine-knit goods from foreign or home knit goods, Salt Lake Knitting Works, gold medal.

Premium 14, best display of over and under-stitch, from home-made material, Salt Lake Knitting Works, silver medal.

Premium 15, best quality of overalls, Z. C. M. I. factory, gold medal.

Premium 16, best display of overalls, Z. C. M. I. factory, gold medal.

Premium 17, best display of rubber lined and duck goods, Z. C. M. I. factory, gold medal.

Premium 18, best display of manufactured fur, E. Meheey, Jr., gold medal.

Premium 19, best American stock saddle, Thomas Bros., Richmond, Utah, \$5.

Premium 20, best quality of Utah-made gloves, Nelson Glove company, gold medal.

Premium 21, best display of Utah-made gloves, Nelson Glove company, silver medal.

Premium 22, best display and quality common sense boots and shoes, Z. C. M. I. factory, gold medal.

Premium 23, best display and quality of youths' and boys' school shoes, gold medal.

Premium 24, best display and quality ladies' fine shoes, Z. C. M. I. gold medal.

Premium 25, best display and quality of boots and shoes, Z. C. M. I. \$10.

Premium 26, best display of trunks, Oliver H. Meredith, gold medal.

Premium 27, best display art glass and metal work, Art Metal & Chandler company, gold medal.

Premium 28, best washing machine,

owned by exhibitor, James H. Moyle, city, first prize.

Class No. 3—Special prize offered by Percheron Registry Co.

Premium 29, special A, stallion 4 years old and over, W. W. Garner, Ogden, first prize.

Premium 30, special B, stallion 3 years old, W. W. Garner, Ogden, first prize.

Premium 31, special C, mare 4 years old or over, James H. Moyle, city, first prize.

Premium 32, special D, mare 3 years old or over, James H. Moyle, city, first prize.

Premium 33, special E, collection of three mares, James H. Moyle, city, first prize.

Premium 34, special F, stud (one stallion and four mares), James H. Moyle, city, first prize.

Premium 35, special G, best stallion any age, W. W. Garner, Ogden, first prize.

Premium 36, special H, champion mare, James H. Moyle, first prize.

Class No. 5, French draft—

Premium 37, mare 3 years old or over, J. H. Seely, Mt. Pleasant, first prize.

Class No. 10, French coach—

Premium 38, stallion 4 years old or over, French Coach Horse Co., Richmond, first prize.

Premium 39, stallion 3 years old and over, B. F. Redman, 117 south West Temple, city, first prize.

Premium 40, stallion 4 years old or over, W. W. Garner, Ogden, first prize.

Premium 41, stallion 3 years old or over, J. H. Sharp, rural free delivery No. 6, city, first prize.

Class No. 11, English hackney—

Premium 42, stallion 4 years old or over, W. W. Garner, Ogden, first prize.

Premium 43, sweepstake, best stallion any age, James H. Moyle, city, first prize.

Class 12, Kentucky saddlers—

Premium 44, stallion 4 years old or over, B. F. Redman, 117 south West Temple, city, first prize.

Premium 45, mare 3 years old and over, B. F. Redman, 117 south West Temple, city, first prize.

Premium 46, sweepstake, best stallion any age, James H. Moyle, city, first prize.

Premium 47, jack and jennets—

Premium 48, jack 4 years old or over, Clayton Land & Cattle Co., 48 east South Temple, first prize.

Premium 49, jack 3 years old and under, F. J. Larkins, Kaysville, first prize.

Premium 50, jack 2 years old and under, F. J. Larkins, Kaysville, first prize.

Premium 51, jennet 4 years old or over, F. J. Larkins, Kaysville, first prize.

Class No. 14-A, mules—

Premium 52, A, best pair to harness 3 years old or over, John Holley, 51 Richards street, first prize.

Class No. 14-A, mules, special—

Premium 53, C, special Utah State Fair association, mule 3 years old and under, Clayton Land & Cattle Co., 48 east South Temple, first and second prizes.

Premium 54, D, special Utah State Fair association, mules 2 years old and under, Clayton Land & Cattle Co., 48 east South Temple, first and second prizes.

Premium 55, E, special, mules 1 year old and under, Clayton Land & Cattle Co., 48 east South Temple, first and second prizes.

CATTLE.

Jersey, class 4, premium 59, best herd 10 Jersey cows over 2 years of age, William C. Winder, first.

PIGEONS.

Black Jacobines—Gus Backman, first cock and first hen.

Red Jacobines—Gus Backman, first cock and first hen.

Yellow Jacobines—Gus Backman, first cock and first hen; James C. Walker, second cock and second hen.

Black Clean-Leg Tumblers—James W. Walton, first cock, first hen; second cock and second hen.

Red Clean-Leg Tumblers—James W. Walton, first cock, first hen, second cock and second hen.

Bald Red-Head Tumblers—Charles J. Dietz, first and second cock, first and second hen.

White Clean-Leg Tumblers—J. W. Goddard, \$27 east Fourth South, first and second cock; first and second hen.

Blue Clean-Leg Tumblers—James W. Walton, first cock and first hen.

White African Owls—Gus Backman, first cock, first hen; second cock and second hen.

Black English Owls—Carl W. Jacobsen, first cock, first hen; second cock and second hen.

Black Chinese Owls—James C. Walker, first cock; Carl W. Jacobsen, first hen, second cock.

Dun Chinese Owls—Carl W. Jacobsen, first cock, second hen; James C. Walker, first hen, second cock.

Blue Chinese Owls—Gus Backman, first and second cock; first and second hen.

Archangles, Dark Brown—Carl W. Jacobsen, first cock, first hen, second cock and second hen.

Archangles, Light Brown—Carl W. Jacobsen, first and second cock; first and second hen.

Black Truets—James C. Walker, first cock and first hen.

Blue Truets—Gus P. Backman, first cock and first hen.

Red Truets—James C. Walker, first cock and first hen.

Russian White Trumpeters—James C. Walker, first cock and first hen.

Black Trumpeters—James C. Walker, first cock and first hen.

Mottled Trumpeters—James C. Walker, first cock, second cock, first and second hen.

English Trumpeters—Seth L. Williams, first cock and first hen.

Black Swallows—Seth L. Williams, first cock and first hen.

Red Swallows—James C. Walker, first cock and first hen; Seth L. Williams, second cock.

White Doves—Seth L. Williams, first cock and second cock, first and second hen.

Muff Tumblers—Black L. Skidmore, first and second cock, first hen.

Red Tumblers—James C. Walker, first cock and first hen.

Rose Wing Tumblers—James C. Walker, first cock and first hen.

Black Swallows—Seth L. Williams, first cock and first hen; Gus Backman, second cock; Carl W. Jacobsen, second hen.

White Homers—David Ostler, first cock; W. J. Bird, first hen, second hen and second cock.

Blue Barred Homers—David Ostler, first cock and first hen; Raymond Rogers, second cock and second hen.

Blue Barred Young—W. J. Bird, first cock and second cock, first hen and second hen.

Red Checkered Homers—W. J. Bird, first cock and first hen; H. Y. Haslam, second cock and second hen.

Red Barred Homers—W. J. Bird, first cock and second hen, first hen and second cock.

Blue Checkered Homers—W. J. Bird, first cock; Seth L. Williams, first hen; W. J. Bird, second hen.

White Checkered Young—W. J. Bird, first and second cock, first and second hen.

Young Homer Tumblers—J. W. Walton, first and second cock, first and second hen.

Association special ribbon for best bird in each variety.

Parley Tumblers—Carl J. Dietz.

owned by exhibitor, James H. Moyle, city, first prize.

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Class 12